PLUMBING FIXTURE SCHEDULE

A TANK WATER CLOSET (HANDICAPPED): AMERICAN STANDARD 2467.016, FLUSH TANK WITH TRIP LEVER ON OPEN SIDE OF TOILET. FLOOR MOUNTED. STANDARD WHITE FINISHED. ELONGATED FRONT BOWL. PRESSURE ASSISTED 1.6 GPF. RIM 16 1/2" A.F.F. AM. STD 4142.600 TANK COVER LOCKING DEVICE
AM. STD. 5321.110 OPEN FRONT SEAT LESS COVER.

B LAVATORY (HANDICAPPED UNDER COUNTER): KOHLER MODEL K-2214-G-0, 18"x12" UNDER COUNTER MOUNT LAVATORY, VITREOUS CHINA. FAUCET BY TOTO, SELF GENERATING ECOPOWER SYSTEM, LOW-FLOW SENSOR FAUCET SPOUT WITH THERMAL MIXER AND CONTROLLER, TEL101-D10ET #CP.
INSULATE WATER AND WASTE PIPING UNDER LAVATORY WITH TRUBRO "HANDI LAV-GUARD" #102 KIT. RI 34" A.F.F. TO RIM. PROVIDE & INSTALLED BY CONTRACTOR CONTACT CHRISTINE MCALEXANDER 800-459-7099 PANDARG@HJCINC.COM

C NOT USED

D FLOOR DRAIN: ZURN # ZB415-B5 CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, MEMBRANE FLASHING CLAMP. PROVIDE 3" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION. REFER TO DETAIL 9/P-500 & 17/P-500. PROVIDE TRAP PRIMER

E FLOOR SINK: ZURN # Z1901-32, RECEPTOR WITH 12" SQUARE TOP x 8" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR
PROVIDED WITH ALUMINUM DOME STRAINER WITHOUT GRATE.

E1 FLOOR SINK: ZURN # Z1901-2-32, RECEPTOR WITH 12" SQUARE TOP x 8" DEEP CAST IRON BODY WITH ACID-RESISTING ENAMEL INTERIOR. RECEPTOR
PROVIDED WITH PORCELAIN ENAMEL LOOSE-SET 1/2 GRATE AND ALUMINUM DOME STRAINER.

F NOT USED

G FLOOR DRAIN WITH FUNNEL: ZURN # ZB415-AR-4 ACID RESISTING EPOXY COATED CAST IRON DRAIN WITH 5" ROUND POLISHED BRONZE TOP, 4" FUNNEL. PROVIDE 2" OUTLET WITH P-TRAP. CLEAN AND POLISH AFTER INSTALLATION.
REFER TO DETAIL. PROVIDE TRAP PRIMER

H NOT USED

I GREASE INTERCEPTOR: JENSEN OR EQUAL, 1500 GALLONS, 4" INLET AND OUTLET. TRAFFIC COVER. REFER TO CIVIL DRAWINGS FOR LOCATION. THE DESIGN OF THE GREASE INTERCEPTOR SHALL BE APPROVED BY LOCAL CITY REQUIREMENT.

J WATER HAMMER ARRESTER: J. R. SMITH #5020, 1" NIPPLE OR EQUAL

K PROVIDE ZURN 375ST STAINLESS STEEL REDUCED PRESSURE PRINCIPLE ASSEMBLY AT BAG-N-BOX. REFER TO 19/P-500

L HOSE BIBB: ACORN #8121 WITH VACUUM BREAKER, CHROME PLATED.

L1 HOSE BIBB: WOODFORD MB65 FREEZELESS COMMERCIAL CONCEALED BOX TYPE WALL HYDRANT IN SECURE LOCK STYLE MODULAR BOX. SINGLE CHECK ANTI SIPHON VACUUM BREAKER. CHROME HEAD, BRASS VALVE BODY HYDRANT WITH ¾" HOSE CONNECTION 18" A.F.F.

M TRENCH DRAIN: ZURN #Z-886-RFS, 6" WIDE x 80" LONG, TRENCH DRAIN SYSTEM. MODULAR CHANNEL SECTIONS SHALL BE MADE OF HIGH DENSITY POLYETHYLENE WITH INTERLOCK ENDS, A RADIUSED BOTTOM AND REINFORCED STAINLESS STEEL SLOTTED GRATE.

N PROVIDE WATTS SERIES CV CHECK VALVE AFTER EACH BV.

O FREEZE PROOF ROOF HYDRANT: WOOFORD MODEL: RHY2-MS

P1 MOP SINK: GSW # SE2424FM 24"x24" STAINLESS STEEL UINIT WITH 13" HIGH SIDES, 18 GA. STAINLESS STEEL.CHICAGO FAUCET #897 WITH INTEGRAL STOPS IN SHANKS, WALL BRACE, HOSE THREADS, PAIL HOOK, VACUUM BREAKER; ROUGH BRASS FINISH; THREE FOOT RUBBER HOSE; 3" TRAPPED AND VENTED WASTE CONNECTION. PROVIDE 3/4" HW & CW RI 8" OC, 36" A.F.F. PROVIDE ¾" CW HOSE BIBB, ACORN #8121 W/ VACUUM BREAKER, 48" A.F.F. FOR CHEMICAL CONNECTION.

P2 GAS WATER HEATER MFG: A.O. SMITH MODEL: BTH-120, 60 GALLON, 120,000 BTU/HR GAS INPUT. 138 GPH CONTINUOUS RECOVERY @ 100° RISE.

P3 ELECTRICAL WATER HEATER MFG: A.O. SMITH MODEL DEL-10, 10 GALLON STORAGE, 6.0 KW, 208 VOLT, 1 PHASE, 30 GPH RECOVERY @ 80° RISE.

CP HW CIRC. PUMP - MFG: BELL & GOSSETT. MODEL: NBF-22U, 1/12 HP, 120 VOLT, 7.5 GPM @ 10' HEAD

RD RD - ROOF DRAIN:
J.R. SMITH #1010 CAST IRON ROOF DRAINS WITH FLASHING COLLAR AND CAST IRON DOME. FURNISH EXTENSION (SUFFIX-E) FOR INSULATED ROOFS. SUMP RECEIVER (SUFFIX-R) AND UNDERDECK CLAMP (SUFFIX-C) FOR ALL BUT POURED-IN-PLACE INSTALLATIONS. OUTLET CONNECTION TYPE SHALL BE COMPATIBLE WITH PIPING SYSTEM.

OD OD - OVERFLOW ROOF DRAIN:
J.R. SMITH #1070 WITH SAME FEATURES AS DESCRIBED FOR "ROOF DRAINS". TANDPIPES SHALL BE ADJUSTED AND SECURED SO THAT AFTER THE INSTALLATION OF THE DRAIN ASSEMBLY, THE TOP OF THE STANDPIPE SHALL BE (2") ABOVE THE ADJACENT ROOF SURFACE.

KITCHEN EQUIPMENT SCHEDULE

ITEMS IN THIS SCHEDULE ARE FURNISHED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR AND CONNECTED TO THE PLUMBING UTILITIES BY THE PLUMBING CONTRACTOR, WHO SHALL INSTALL ALL PLUMBING DEVICES FURNISHED WITH EQUIPMENT.

WASTE, FS = FLOOR SINK, CFD = CONDENSATE FLOOR DRAIN, VB = VACUUM BREAKER. FLEX = A SIX FOOT COILED LENGTH OF FOOD QUALITY FLEXIBLE REINFORCED PLASTIC TUBING CONNECTED FROM THE ROUGH IN TO THE EQUIPMENT WITH ALL REQUIRED ADAPTERS AND HOSE CLAMPS.

ALL PIPES MUST MAINTAIN A MINIMUM CLEARANCE OF 6" AFF AND MUST BE WELL SUPPORTED. NO FLOOR SUPPORTS ALLOWED.

4A SERVING COUNTER MOUNTED SODA MACHINE: IF PROVIDED, SODA MACHINE INSTALLER TO PROVIDE DRAIN LINES FROM ICE BIN AND SODA MACHINE TO FS WITH 1" AIR GAP. DRAIN LINE TO BE INSULATED. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER.

4AB BEVERAGE COUNTER MOUNTED SODA MACHINE WITH ICE MACHINE: PROVIDE ¾" COPPER PIPE IW FROM COUNTER TROUGH DRAIN TO FS WITH 1" AIR GAP, INSULATE. WATER TO SODA MACHINE TO BE PROVIDED THROUGH BUNDLE FROM FILTER AND RACK IN KITCHEN BY SODA MACHINE INSTALLER.

4F WATER FILTER: PROVIDE ½" CW AT 96" AFF WITH BV. PROVIDE FLEX AND REDUCED PRESSURE STAINLESS STEEL BACKFLOW PREVENTOR, OR OTHER DEVICE AS REQUIRED BY LOCAL CODE. INSTALL OWNER PROVIDED WATER FILTER AND MAKE CONNECTIONS TO BACKFLOW PREVENTOR AND WATER SUPPLY. PROVIDE ALL REQUIRED FITTINGS TO ALLOW SODA MACHINE INSTALLER TO HOOK UP BOOSTER PUMP TO WATER FILTER.

9D ICE TEA MAKER: PROVIDE ½" CW @ 24" A.F.F. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE TEA INSTALLER TO HOOK UP ONE BV, OTHER BV FOR OTHER EQUIPMENT.

10J SODA MACHINE MOUNTED ICE MACHINE. PROVIDE 1/2" CW AT 24" A.F.F. WITH BV. PROVIDE ALL REQUIRED FITTINGS TO ALLOW ICE MACHINE INSTALLER TO HOOK UP ICE MACHINE TO CW.

20A / 20B CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE 1½" GAS SUPPLY AT 9" AFF WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.

20Q CHINESE RANGE: PROVIDE ½" CW AT 10" AFF WITH BV. PROVIDE PRESSURE TYPE VB OR OTHER BACKFLOW DEVICE AS REQUIRED BY LOCAL CODE, AND CONNECT TO OWNER SUPPLIED FAUCETS. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP. PROVIDE 1" GAS SUPPLY DOWN TO 9" AFF REDUCE TO ¾" AT EQUIPMENT CONNECTION WITH EASILY ACCESSIBLE SHUT-OFF VALVE. INSTALL OWNER SUPPLIED GAS REGULATOR AND ADJUST GAS LEVEL TO BURNERS.

21G FRYER: PROVIDE 1½" GAS SUPPLY DOWN TO 14" AFF THEN TRANSITION TO 1" WITH 90° ANGLE AND SHUT OFF VALVE. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS WITH 90° ANGLE. SEE DETAIL ON P-500

25A RICE COOKER: PROVIDE ¾" GAS SUPPLY AT 30", AND ¾" GAS SUPPLY AT 10" AFF WITH SHUT OFF VALVES, ONE FOR EACH UNIT. PROVIDE ALL REQUIRED FITTINGS AND INSTALL OWNER SUPPLIED QUICK DISCONNECT FLEXIBLE PIPE AND CONNECT TO UNITS.

31 WALK-IN COOLER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS.

32 WALK-IN FREEZER: PROVIDE 1" COPPER PIPE IW FROM DRAIN PAN ON EACH UNIT TO FLOOR DRAIN WITH 'P' TRAP AND 1" AIR GAP. MOUNT ALL PIPES WITHIN WALK-IN BOX WITH 1" HOLD-OFF SUPPORTS. PROVIDE HEAT TRACE REFER TO ELECTRICAL DRAWING.

40A POT SINK: PROVIDE ¾" CW AND ¾" HW AT 14" AFF AND 8" OC WITH BVS & CV. CONNECT TO OWNER SUPPLIED FAUCET WITH COPPER PIPING. PROVIDE 2" COPPER PIPE IW (MANIFOLD ALL COMPARTMENT DRAINS INTO ONE LINE) TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS. SEE DETAIL ON SHEET P-500.

40B FAUCET FOR CHEM: T&S BRASS MODEL #B-0669-POL

41B / 41C SINGLE BOWL PREP SINK: PROVIDE ½" CW AND ½" HW AT 14" AFF AND 8" OC WITH BVS. TRANSITION TO ¾" PRIOR TO CONNECTION. CONNECT TO OWNER SUPPLIED FAUCETS WITH COPPER PIPING. PROVIDE 2" COPPER PIPE IW TO FS WITH 2" AIR GAP, OR, IF REQUIRED BY LOCAL CODE, INSTALL 2" COPPER PIPE DIRECTLY TO SEWER SYSTEM. INSTALL OWNER SUPPLIED LEVER DRAIN STOPS.

45A HAND SINK, PROVIDE ½" CW AND ½" HW AT 24" AFF AND 8" OC WITH CHROME-PLATED, ¼ TURN BALL VALVES. CONNECT TO OWNER SUPPLIED FAUCETS WITH METAL FLEX PIPING. PROVIDE 2" DRAIN PIPE WITH 'P' TRAP AND WALL MOUNTED CLEAN-OUT. ALL EXPOSED DRAIN PIPES AND FITTINGS TO BE CHROME PLATED, NOT P.V.C.

PLUMBING KEY NOTES

1. SODA CONDUIT: PROVIDE 4" PVC CONDUIT BELOW FLOOR FROM THE SIDE OF SODA STORAGE RACK TO SODA DISPENSER PER DETAIL #4 ON SHEET P-500.
2. CONDENSATE: ROUTE SHARED CONDENSATE LINE THROUGH WALK-IN COOLER. DO NOT RUN THROUGH WALK-IN FREEZER. PROVIDE 1" INSULATED CONDENSATE DRAIN PIPE FROM THE EVAPORATIVE COIL. DISCHARGE TO FUNNEL DRAIN WITH AIR GAP OF TWICE PIPE DIAMETER. INSTALL AT MINIMUM 76" HEIGHT A.F.F. REFER TO DETAIL #2 ON SHEET P-500.
3. ROUTE WATER HEATER DRAIN PAN TO MOP SINK.
4. PROVIDE TRAP PRIMER FOR FLOOR DRAIN. SEE DETAILS #9 & #17 ON DWG P-500.
5. RELIEF VALVE: PROVIDE 3/4" PIPE FULLY INSULATED. CONTINUE AND STOP AT 6" ABOVE GROUND AT MOP SINK.
6. RDL & ODL LINES DN. IN WALL. TERMINATE ODL THRU WALL AS CLOSE TO BOTTOM PLATE AS POSSIBLE, EXTEND 1/2" PAST EFIS, BEVEL BOTTOM OF PIPE, WATER PROOF SEAL ALL AROUND AND PAINT TO MATCH. TERMINATE RDL & ODL WITH 4" PVC LAMB'S TONGUE NOZZLE, COLOR ANTIQUE BRONZE, ARKMANN MODEL #PDN-4
7. COMBINATION WASTE/VENT

FIXTURE UNIT SCHEDULE

ITEM	FIXTURE	QTY	WATER FU EACH	WATER FU TOTAL	SEWER FU EACH	SEWER FU TOTAL
A	WATER CLOSET	2	5	10	4	8
B	LAVATORY	2	2	4	1	2
D	FLOOR DRAIN	5	___	___	2	10
E E1	FLOOR SINK	7	___	___	5	35
P1	MOP SINK	1	4	4	3	3
G	FLOOR DRAIN W/ FUNNEL	2	___	___	2	4
L L1	HOSE BIBB	3	5	15	___	___
M	TRENCH DRAIN	1	___	___	4	4
O	ROOF HYDRANT	1	5	5	___	___
4F	FILTER SYSTEM	1	1	1	FS	___
9D	ICE TEA BREWER	2	1	2	FS	___
10J	400 LB ICE MACHINE	2	1	2	FS	___
10L	NOT USED	0	0	0	FS	___
20A	CHINESE RANGE	1	2	2	FS	___
20Q	CHINESE RANGE	1	1	1	FS	___
40A 40B	POT SINK (3.COMP.)	1	4	4	FS	___
41B	PREP. SINK (1.COMP.)	1	4	4	FS	___
41C	PREP. SINK (1.COMP.)	1	4	4	FS	___
45A	HAND SINK (WALL MOUNT)	2	2	4	1	2
	TOTAL			62		66

FIXTURE UNIT SUMMARY

SERVICE	OLD F.U.	NEW F.U.	TOTAL F.U.
DOMESTIC WATER	0	62	62
SANITARY SEWER	0	66	66

SERVICE REQUIREMENTS

SERVICE	SIZE MAIN		CAPACITY	
DOMESTIC WATER	2"	INCH	35	GPM
SANITARY SEWER	4	INCH	66	F.U.
FUEL GAS	3	INCH	2166	CFH
FIRE PROTECTION		INCH		GPM

WATER PIPE SIZING CHART (COLD WATER)

PIPE SIZE	GPM	VELOCITY FT/SEC	FIXTURE UNITS F - TANK		F - VALVE	
1/2"	2.5	3.5	2 F.U. @ psi	6.0	F.U. @ psi	
3/4"	6.6	4.4	8 F.U. @ psi		F.U. @ psi	
1"	13.4	5.2	19 F.U. @ psi		F.U. @ psi	
1-1/4"	23.3	5.9	37 F.U. @ psi		6 F.U. @ psi	
1-1/2"	36.7	6.6	74 F.U. @ psi		23 F.U. @ psi	
2"	76.4	7.9	254 F.U. @ psi		132 F.U. @ psi	

* DOMESTIC WATER BACKFLOW PREVENTER MODEL: "WILKINS"975XL SIZE 1-1/2"
** PRESSURE REGULATING VALVE MODEL: N/A SIZE N/A

WATER PIPE SIZING CHART (HOT WATER)

PIPE SIZE	GPM	VELOCITY FT/SEC	FIXTURE UNITS F - TANK	F - VALVE
1/2"	2.5	3.5	2 F.U. @ psi	F.U. @ psi
3/4"	6.6	4.4	8 F.U. @ psi	F.U. @ psi
1"	13.2	5.0	19 F.U. @ psi	F.U. @ psi
1-1/4"	19.0	5.0	37 F.U. @ psi	6 F.U. @ psi

GREASE INTERCEPTOR CALCULATION

FIXTURE	QTY.	FU	FU TOTAL
FLOOR SINK	5	5	25
FLOOR DRAIN	2	2	4
TRENCH DRAIN	1	4	4
MOP SINK	1	3	3
TOTAL			36 (25 GPM)

GREASE INTERCEPTOR TO BE SIZED AT 1500 GALLONS IN ACCORDANCE WITH LOCAL CITY REQUIREMENTS. COORDINATE WITH CIVIL SITE PLAN AND DETAIL SHEETS ON EXACT LOCATION AND INSTALLATION INSTRUCTIONS.

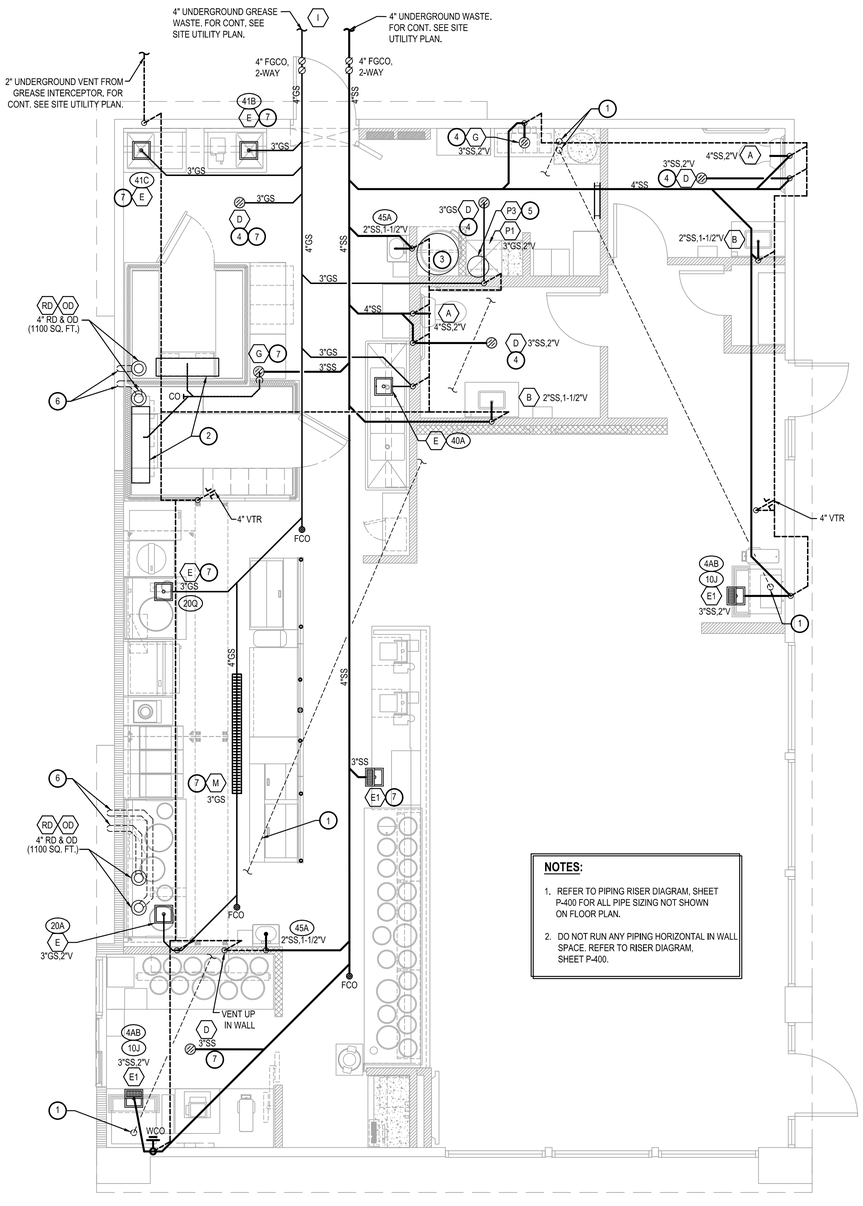
FIXTURE BRANCH SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (HANDICAPPED)	1/2"	--	4"	2"
LAVATORY	1/2"	1/2"	2"	1 1/2"
2 AND 3 - COMP SINK	1/2"	1/2"	3"	2"
HAND SINK	1/2"	1/2"	2"	1 1/2"
MOP SINK (J.S.)	1/2"	1/2"	3"	2"
EQUIPMENT	1/2"	--	--	--
FLOOR DRAIN/SINK	--	--	2" OR 3"	2"

PIPE MATERIAL SCHEDULE

SERVICE	UNDERGROUND	ABOVE GROUND
COLD & HOT WATER	TYPE "K" OR "L" HARD DRAWN COPPER TUBE	PEX (BLUE FOR COLD/RED FOR HOT)
SANITARY WASTE	*SCH. 40 PVC	*SCH. 40 PVC
SANITARY VENT	*SCH. 40 PVC	*SCH. 40 PVC
GAS	____	BLACK STEEL, SCHEDULE 40
INDIRECT DRAIN	____	HARD DRAWN COPPER TUBE TYPE "M"

*SCH. 40 PVC IS PREFERRED IF APPROVED BY AUTHORITY HAVING JURISDICTION.
PROVIDE SCHEDULE 40 PVC FOR ALL WASTE VENT PIPING & FITTINGS.



NOTES:

1. REFER TO PIPING RISER DIAGRAM, SHEET P-400 FOR ALL PIPE SIZING NOT SHOWN ON FLOOR PLAN.
2. DO NOT RUN ANY PIPING HORIZONTAL IN WALL SPACE. REFER TO RISER DIAGRAM, SHEET P-400.

WASTE & VENT PLAN 1
Scale: 1/4"=1'-0" P-101

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P-101

WASTE □ VENT PLAN